

Murfreesboro Fire & Rescue Department

2012 Annual Report



Murfreesboro "Creating a Better Quality of Life"



MEMORANDUM

DATE: April 24, 2013

TO: Mayor Tommy Bragg
Members of the City Council
City Manager Rob Lyons

FROM: Fire Chief Cumbey Gaines

SUBJ: 2012 ANNUAL REPORT

I am pleased to present the 2012 Annual Report for the Murfreesboro Fire & Rescue Department. This report summarizes activities of the department from January 1, 2012 through December 31, 2012.

I am proud of the men and women that make up this department. Our department and its members continue to be recognized statewide as leaders of today's progressive fire service. Other departments, both local and across the state, frequently develop programs for their citizens based on the innovative ideas already implemented by the men and women of the Murfreesboro Fire & Rescue Department.

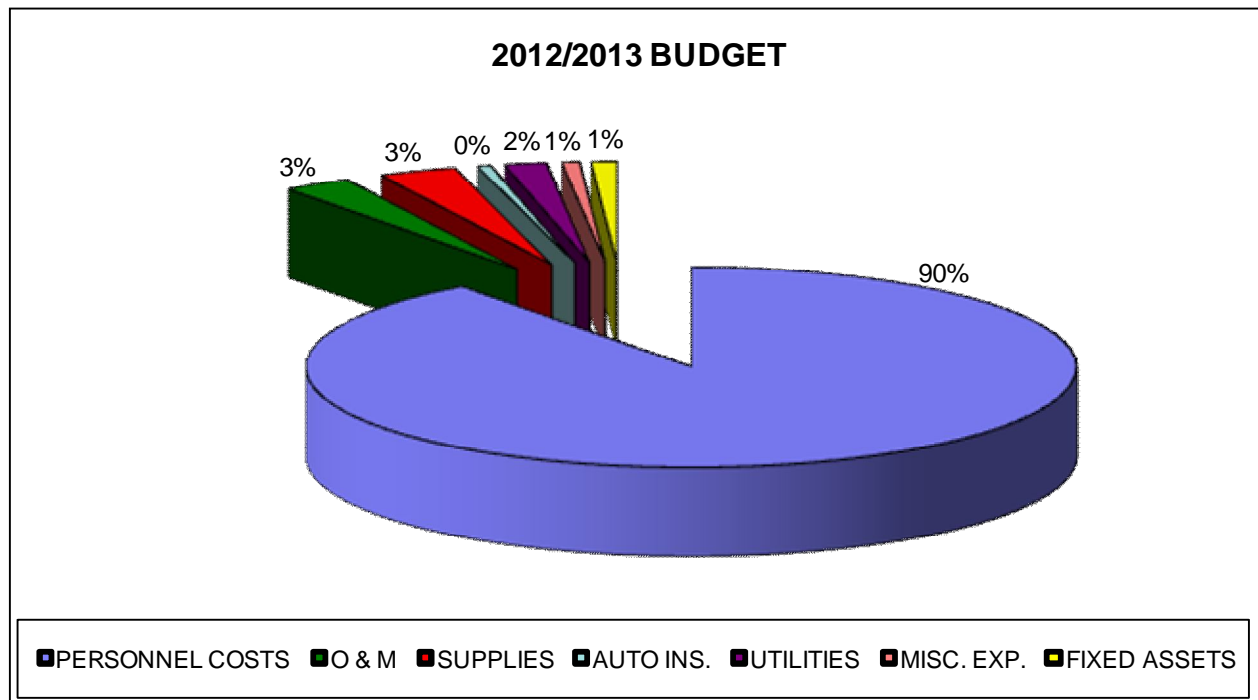
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Budget

The Murfreesboro Fire & Rescue Department's (MFRD) total budget for the fiscal year 2012/2013 is \$15,348,699. Budget figures do not include capital improvement projects.

DESCRIPTION	2010/2011 ACTUAL	2011/2012 ACTUAL	INCREASE/ (DECREASE)	2012/2013
PERSONNEL COSTS	\$12,456,952	\$13,012,516	\$781,087	\$13,793,603
OPERATION & MAINTENANCE	336,927	355,404	77,054	432,458
SUPPLIES	381,520	418,222	78,951	497,173
AUTO INSURANCE	78,119	0	82,390	82,390
UTILITY SERVICE	222,641	196,819	69,881	266,700
MISC. EXPENSE	333,857	219,178	(106,178)	113,000
FIXED ASSETS	213,009	141,543	21,832	163,375
TOTAL BUDGET	\$14,023,025	\$14,343,682	\$1,005,017	\$15,348,699



2012 Accomplishments

SPECIAL EVENTS TEAM ESTABLISHED

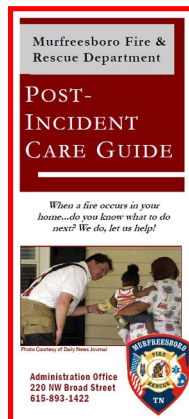
MFRD established a Special Events Team in June 2012. The team's purpose is to provide service excellence by engaging the community, educating the public on fire and life safety, and promoting a positive image for the City and the department. The team consists of 30 personnel who are either trained first responders or emergency medical technicians (EMTs) enabling them to provide medical and emergency assistance at the first responder level of care when necessary. The team participated in 13 events in 2012.

POST INCIDENT CARE GUIDE DEVELOPED

MFRD developed a Post-Incident Care Guide to distribute to citizens after a fire. The guide is designed to help citizens in their time of crisis. MFRD engines and rescues have these brochures readily available for anyone that suffers fire damage to their property. The brochure includes helpful information such as phone numbers for utility companies and the American Red Cross, safety tips, and a checklist of documents and records that may need to be replaced.

BREAST CANCER AWARENESS PROMOTED

October is National Breast Cancer Awareness Month. Several local organizations, associations, and agencies in the area help promote breast cancer awareness in October. MFRD decided to join the effort in 2012 and wore pink t-shirts during October. Employees enjoyed wearing the pink t-shirts to show support for the fight against breast cancer.



2012 Accomplishments

NEW EQUIPMENT

- Commercial Grade Generator (Grant)
- 120 Motorola 7000XE Portable Radios and Vehicle Chargers
- Hydraulic Lines Upgraded on Two Rescues
- Water Rescue Boat (Grant)
- 50 Lounge Chairs for Fire Stations
- Kyocera Multi-Function Device (Color Printer, Copier, and Scanner)
- Four Q-RAE Gas Monitors
- Two Misting Fans with Carts, One Misting Tent, One Freezer, and Eight (8) Cooling Vests for Rehab
- Computer Based Training Software for Medical First Responder
- 10 Smooth Bore Nozzles and 9 Adapters
- Three Level A Hazardous Materials Suits
- Door Bells Installed at Fire Stations
- Four Suction Units
- One Riding Lawnmower
- 10 Throat Microphone Adapter Cords
- Tent & Display Board for Special Events Team
- Two DVR Recorders for Apparatus
- One Radio Equipment Cabinet (HQ), One Medical Cabinet (HQ), and One Storage Cabinet (St10)
- 20 Rapid Deployment Bags
- Six Pike Poles
- Two Smoke Machines
- One Thermal Imaging Camera Charger



**WATER RESCUE
BOAT**



**COMMERCIAL GENERATOR
LOCATED AT HQ**

2012 Accomplishments

STATION/BUILDING PROJECTS

- Administration - Replaced Ceiling Tile in Women's Restroom; Restriped Parking Lot; Built Wall in Attic
- Headquarters - Repaired Concrete and Sidewalk; Cleaned Engine Room Drains; Restriped Parking Lot; Painted Bay
- Station 2 - Painted Restroom
- Station 3 - Repaired Concrete and Extended Sidewalks; Replaced Portion of Main Water Line; Resealed and Restriped Parking Lot
- Station 4 - Repaired Roof; Resealed and Restriped Parking Lot
- Station 5 - Replaced Seals on Bay Doors, Casings on Two Doors, Heater in Bay, and Ballasts in Engine Room; Painted Outside Louvers
- Station 6 - Repaired Roof; Replaced Window Blinds, Light Fixture Lenses, and Woodwork; Painted Interior; Relocated Ice Machine
- Station 7 - Replaced Porch Columns and Ceiling Tile; Restriped Parking Lot; Installed Vent in Roof
- Station 8 - Repaired Roof and Lights in Engine Room; Replaced Window Blinds
- Station 9 - Replaced HVAC coils
- Replaced Various Appliances and Equipment
- Treated Fire Stations for Termites

FUTURE PROJECTS AND EQUIPMENT

- Construct Public Training Facility (2012 CIP)
- Staff Fire Station 10
- Replace Ladder Truck and Two 50-ft. Telesqurts, Upgrade Two Light Rescues to One Medium and One Heavy (2012 CIP)
- Clean HVAC Ducts at Fire Stations & Administration
- Remodel Fire Station 6 Restroom
- Replace Fire Station 9 Roof
- Replace Porch Columns at Station 9
- Train Personnel to Install Child Safety Seats
- Conduct Hazardous Materials Technicians Physicals
- Design a Challenge Coin for Outstanding Service

2012 Accomplishments

PUBLIC RELATIONS EVENTS

- Annual Smoke Detector Program - Project SAFE, "Smoke Alarms for Everyone"
- National Night Out
- 9/11 Remembrance Ceremonies
- 9/11 Memorial Stair Climb
- Rutherford County Christmas Parade
- Toys for Tots Campaign
- Hosted Fire Safety Inspector's Conference
- Hosted the Tennessee Advisory Committee on Arson Conference
- Hosted the Tennessee Public Fire and Life Safety Educators Association Conference
- Leadership Rutherford Emergency Services Event
- Dairy Day Annual Milking Contest

MISCELLANEOUS

- Public Service Announcements on Fire Safety Produced & Aired on CityTV
- Honor Guard Presented Colors at 17 Events
- Presented Appreciation Plaque to Toot's Restaurant for Sponsoring Firefighter of the Month
- Updated the Department's Composite Picture



**9/11 MEMORIAL
STAIR CLIMB**



**DAIRY DAY
CONTEST**



**CHRISTMAS
PARADE**

Personnel Acknowledgements

YEARS OF SERVICE AWARDS PRESENTATION

The Second Annual Years of Service Awards Presentation was held on September 20, 2012 at Patterson Park Community Center. Employees with 20, 25, 30, and 35 years of service received an award for their accomplishment. Mike Black, William Daniel, Dale Maynard, and William Murray also received a special plaque for their 35 years of service. The plaque includes some of the employee's favorite memories of their years with the department.

Two additional groups, 10 and 15 years of service, were added to the presentation in 2012. Employees with 10 to 14 and 15 to 19 years of service received an award. Years of Service Committee Members Laurie Alsup, Raleigh Marlin, Adam Petrig, and Shan Womack designed a commemorative medal for these groups with Fire Chief Gaines' and Deputy Fire Chief Toombs' approval. The front of the medal includes the MFRD patch and the year the department was established. The back of the medal is stamped with a 10 or 15 to correspond with the years of service completed by the employee and the words Tradition, Dedication, and Honor which are synonymous with the fire service.



35 YEARS

(L to R): W. Murray and W. Daniel.

Not Pictured: D. Maynard and M. Black.



25, 30, & 35 YEARS

(L to R) 1st Row: W. Murray, Randy Jones (30), and W. Daniel. 2nd Row: C. Gaines, J. Avaritt (25), V. Anderson (25), B. Decker (25), M. Mitchell (25), and R. Toombs (25).

Not Pictured: M. Black, M. Madding (30), D. Maynard.

Personnel Acknowledgements



15+ YEARS

(L to R) 1st Row: C. Gaines, A. Brandon, J. Oliver, J. Hayes, K. McMahan, J. Harris, B. Creager, and R. Toombs. 2nd Row: W. Williams, J. Bigelow, R. Smith, T. Summar, T. Smith, G. Hutchinson, T. McAdoo, and B. Canterbury.

Not Pictured: R. Crick, H. Fite, C. McBride, J. McCullough, T. Rowlett, and N. Smith.



10+ YEARS

(L to R) 1st Row: M. Meeks, T. Corder, T. Lampitt, D. Simms, C. Ayers, and D. Cranford. 2nd Row: G. Burt, J. Bell, M. Keith, R. Shaw, A. Petrig, M. Bartlett, B. Brewer, D. Howse, and D. Inglish. 3rd Row: C. Gaines, B. Burgess, J. Wright, S. Duncan, C. Estes, B. Insell, J. Irvin, and R. Toombs.

Not Pictured: R. Brown, A. Cayll, A. Constant, P. Diawara, R. Fugate, M. Holmes, T. Jackson, B. Lowe, I. Marcella, R. Marlin, C. Mikolon, P. Oliver, G. Robinson, and D. Sloan.

Personnel Acknowledgements

FIREFIGHTER OF THE MONTH

January

Travis Bryant
Jeremy Morris

February

Keith Elrod
Ted Pertiller

March

Jeff Day
Steve Ellison
Dustin Liddell

April

Doug Inglish
Paul Oliver
Jeremy Spivey

May

Jerry Thomas

June

Clay Estes
Adam Petrig

July

Clay Estes
Hunter Fite
Troy Thomas

August

Jimmy Barrett
Julia Pitt

September

Jeff Clementi
Britt Gammon
Joe Pennington

October

Joe Barrett
Dwajuan Howse
Kurt McMahan

November

Nicole Miller

December

Keith Bratcher

SPECIAL AWARDS FOR OUTSTANDING SERVICE

Jeff Day
Steve Ellison
Doug Inglish
Dustin Liddell
Paul Oliver
Jeremy Spivey

Rescued Victim from Overall Creek on January 14, 2012



OUTSTANDING SERVICE AWARDS

Personnel Acknowledgements

SPECIAL AWARDS (CONT'D)

Clay Estes
Adam Petrig

Saved Infant's Life on April 21, 2012

Mitchell Whittenburg

Assessed Citizens' Injuries at a Motor Vehicle Accident (Off Duty) on May 6, 2012

Jimmy Barrett
Clay Estes
Hunter Fite
Julia Pitt
Troy Thomas

Rescued Victim at Northfield Boulevard Structure Fire on May 21, 2012

Joe Barrett
Jeff Clementi
Britt Gammon
Dwajuan Howse
Kurt McMahan
Joe Pennington

Life Saving Efforts on July 19, 2012



**OUTSTANDING
SERVICE AWARDS**

Personnel Acknowledgements

JERRY ANDERSON HERO AWARD - NAACP

Travis Bryant
Jeremy Morris

Rescued Victim at Baird Lane Structure Fire on December 3, 2011

FIREFIGHTER OF THE YEAR - EXCHANGE CLUB

Clay Estes

*Received for Saving an Infant's Life, Aiding in a Fire Victim's Rescue,
Grant Assistance, and Annual Inspection and Maintenance of Extrication Tools*

POLICE & FIRE TELECOMMUNICATOR OF THE YEAR

Janie Lawrence

Received for Exceptional Job Performance



**JERRY ANDERSON
HERO AWARD**



**FIREFIGHTER
OF THE YEAR**



**TELECOMMUNICATOR
OF THE YEAR**

Personnel Acknowledgements

PROMOTIONS/TRANSFERS

Firefighter to Driver

Chase Martin

Driver to Captain

Terrence Thomas

STIPENDS

Public Information Officer

Ashley McDonald

NEW EMPLOYEES

Jason Ayers
Adam C. Brown
Ryan Daniel
Chad Davis
Kevin DeFeo
John Fisher
Ashley Johnson

Jamie Layhew
Justin McCraven
Duane O'Donnell
Matt Roeger
Matt Twomey
Ashley Welcome

RETIREMENTS

Mike Black
Ronald Jones
Jerry Thomas
Steve Thompson
Tommy Underwood



PERSONNEL RECEIVED SHADOW BOX FOR RETIREMENT

Incident Responses

MFRD uses the Tennessee Fire Incident Reporting System (TFIRS) to report each emergency incident. TFIRS is a member of the National Incident Reporting System (NFIRS). Our incident response statistics are compiled with all other Fire Departments at the state and national level. These statistics can be utilized to focus on current problems and to predict future ones within the fire service.

The average travel response time for the first arriving apparatus on an incident was approximately four minutes (4:10). The estimated property and content loss for the City of Murfreesboro was \$1,583,129; the estimated property and content value saved was \$7,969,558. The three most extensive fire losses (property and contents) were a commercial business fire on Old Fort Parkway at \$323,539, a house fire on Katelyn Court at \$160,000, and a house fire on Burlington Court at \$96,162.

The Fire Prevention Division investigated 32 structure fires. Seven (7) of the 32 fires were ruled incendiary. One arrest was made in 2012. The other incendiary fires are still being investigated. There was one fatal fire in 2012. Ninety-one percent (91.26%) of structure fire causes were determined by personnel, leaving only nine percent (8.74%) undetermined. Cooking fires were the highest ranked cause at 48.54 percent (48.54%).

The City of Murfreesboro entered into an agreement on June 1, 2001 to provide full fire suppression services for the Veterans Administration Tennessee Valley Healthcare System, Alvin C. York Campus. In accordance with this agreement, the VA pays monthly for fire suppression service. MFRD also performs inspections of fire department connections and conducts hydrant flow tests.



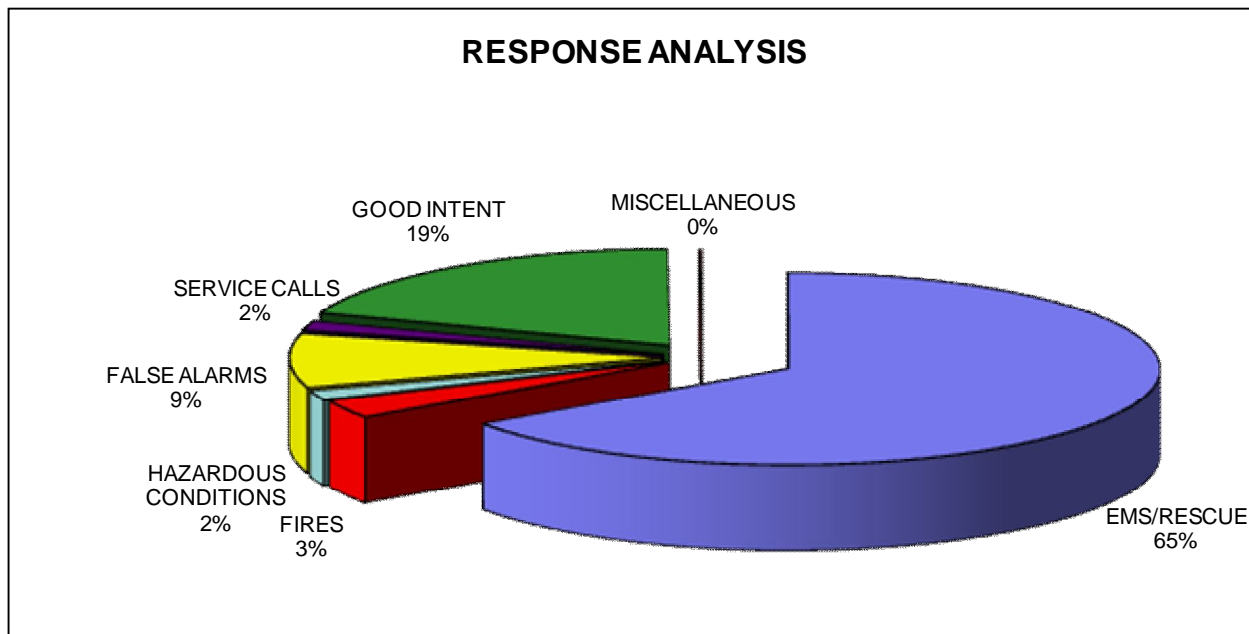
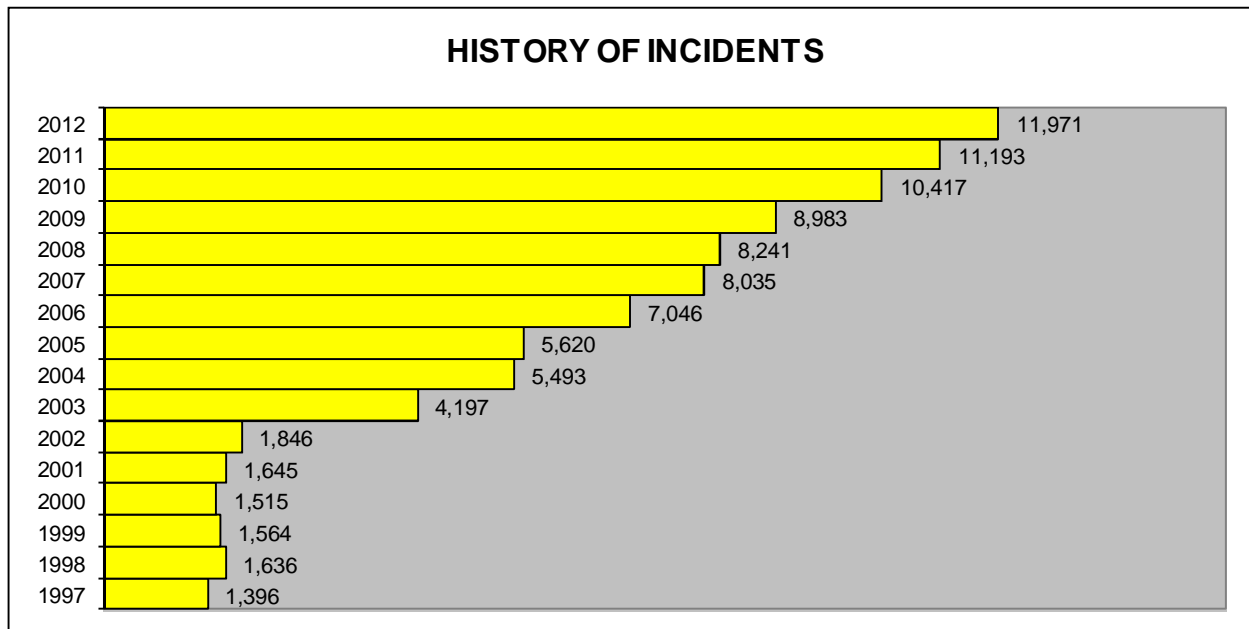
**PERSONNEL EXTRICATED
VICTIM FROM AIRPLANE CRASH**



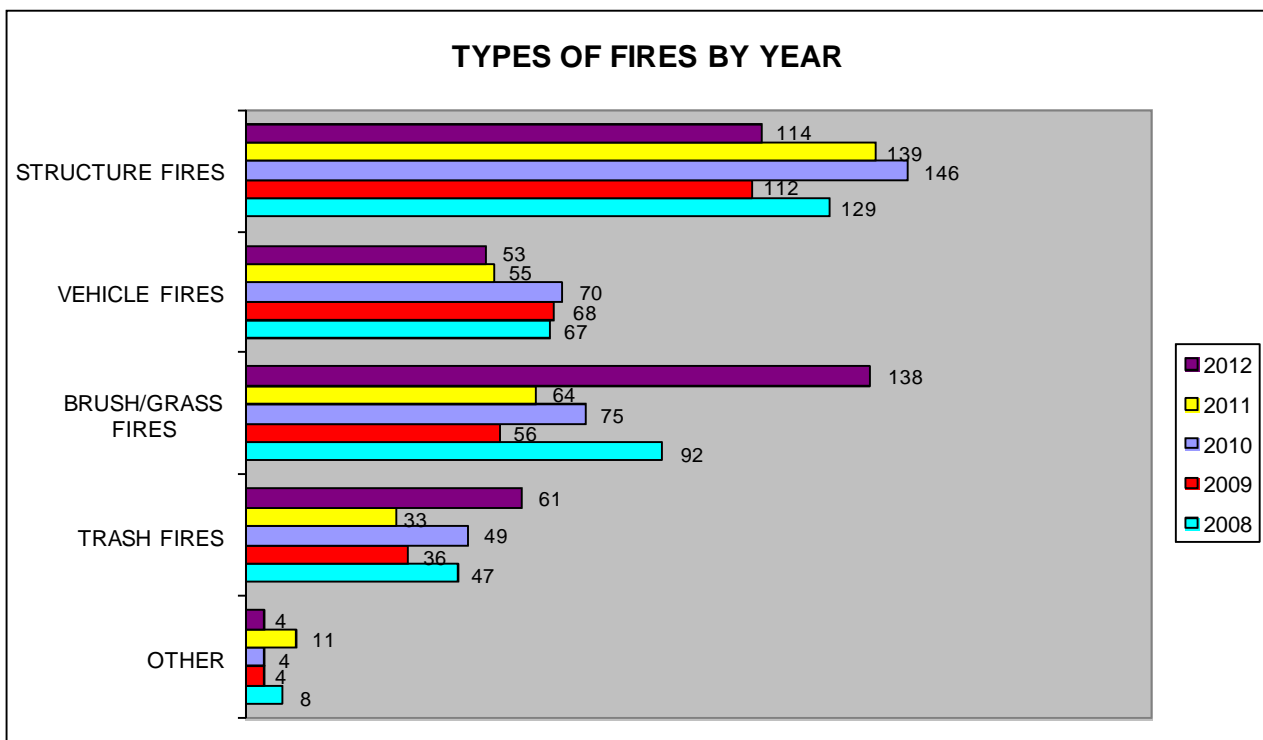
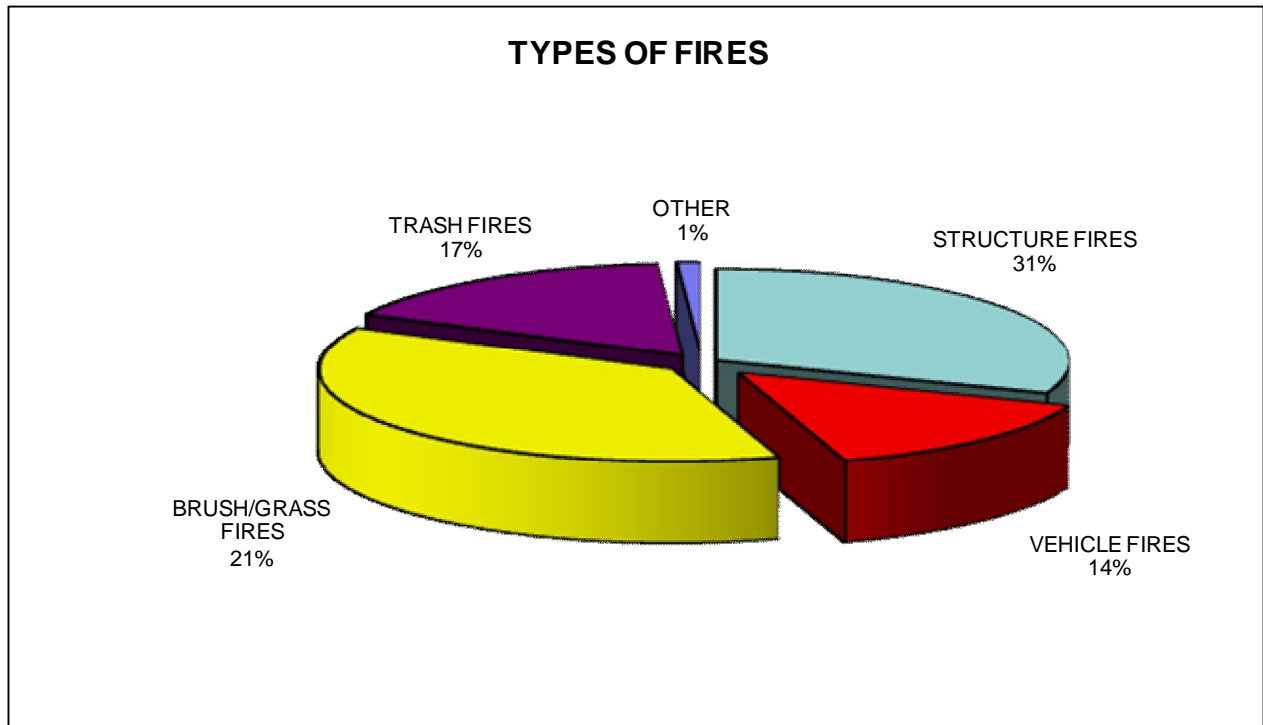
**PERSONNEL BATTLED A HOUSE
FIRE ON REGENCY PARK DRIVE**

Incident Responses

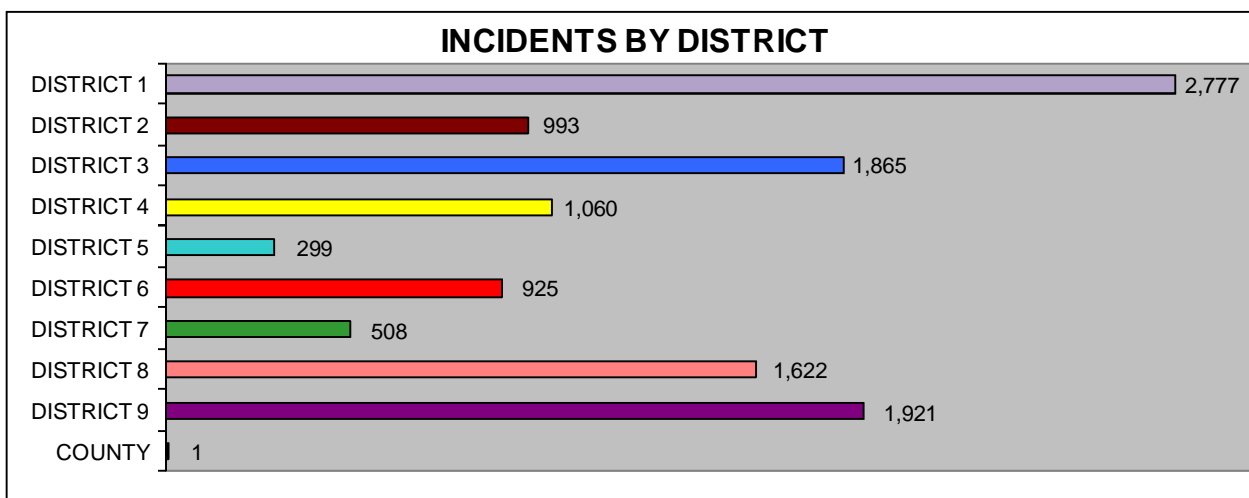
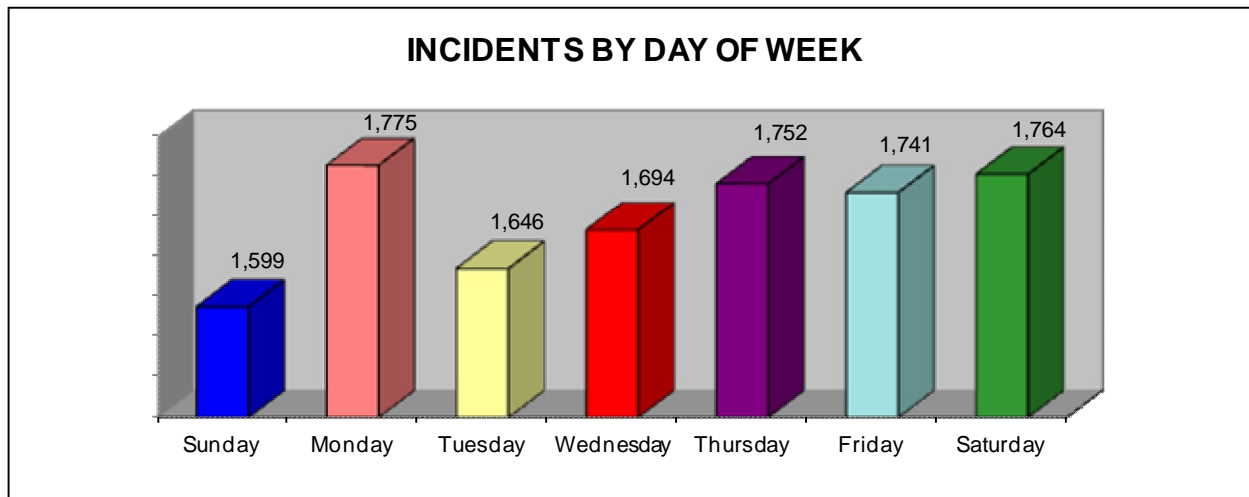
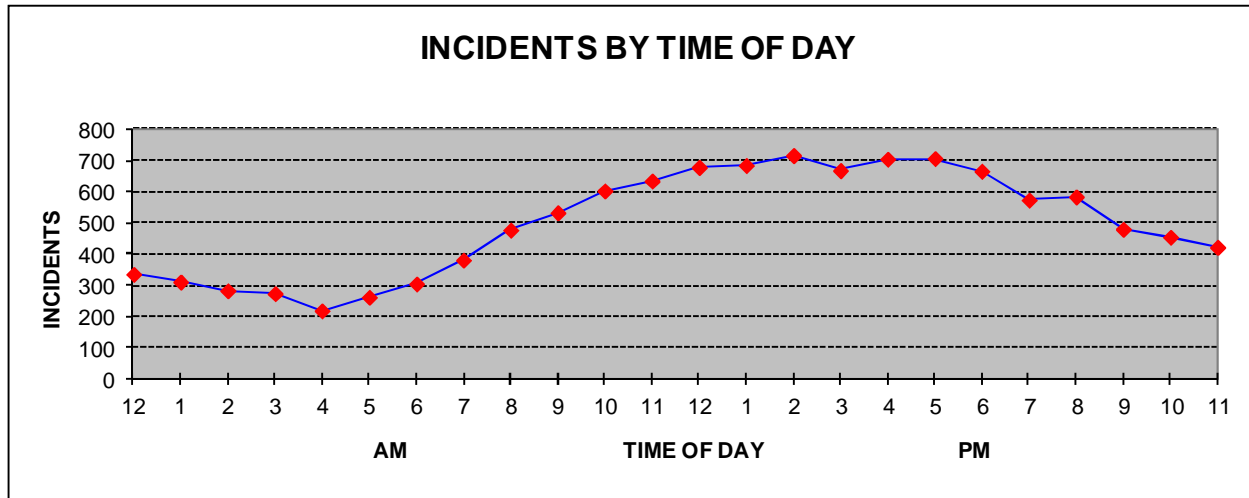
In 2012, MFRD responded to 11,971 incidents, including 7,813 EMS/Rescue calls. Twenty-seven (27) victims were extricated from vehicle accidents. Total calls increased approximately seven percent (6.95%) from 2011, and 548 percent (548.48%) since 2002. The following charts illustrate the history of incidents; response analysis; various types of fires; the number of incidents by time of day, day of week, and district; responses by apparatus; and false alarm analysis.



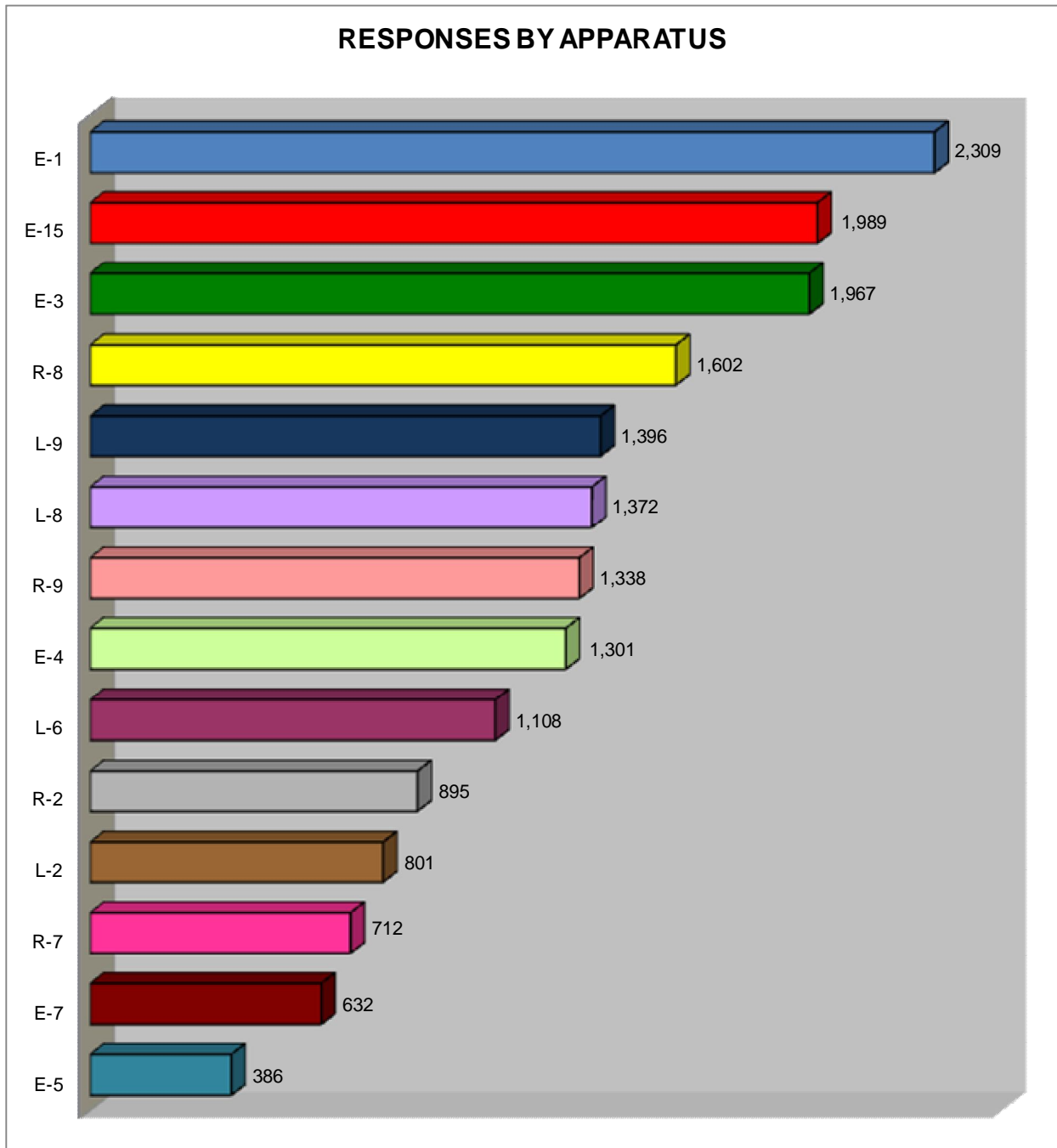
Incident Responses



Incident Responses



Incident Responses

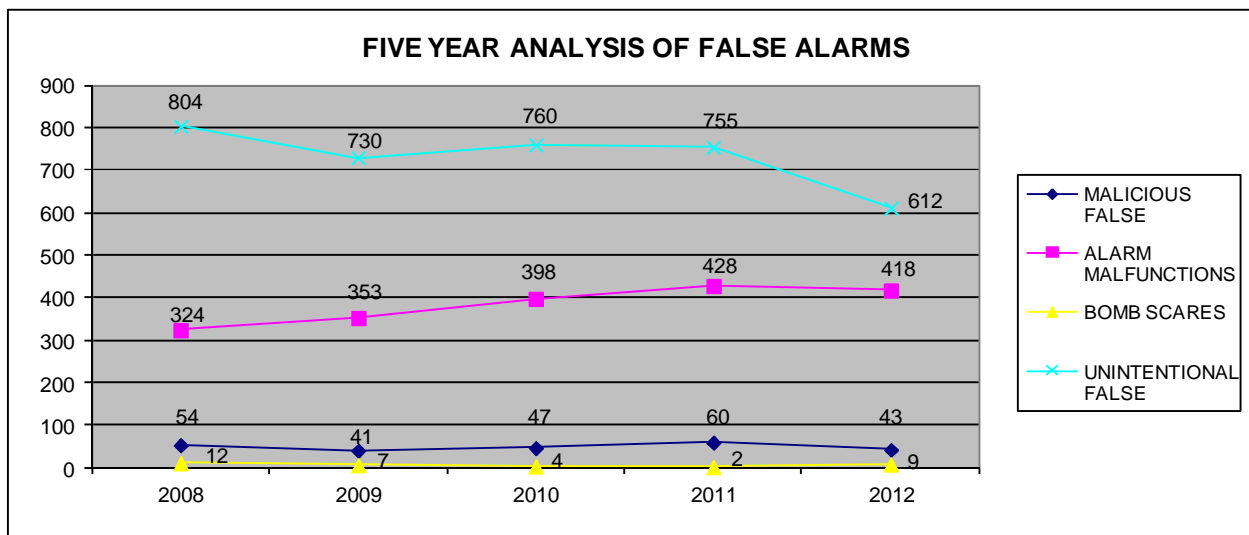
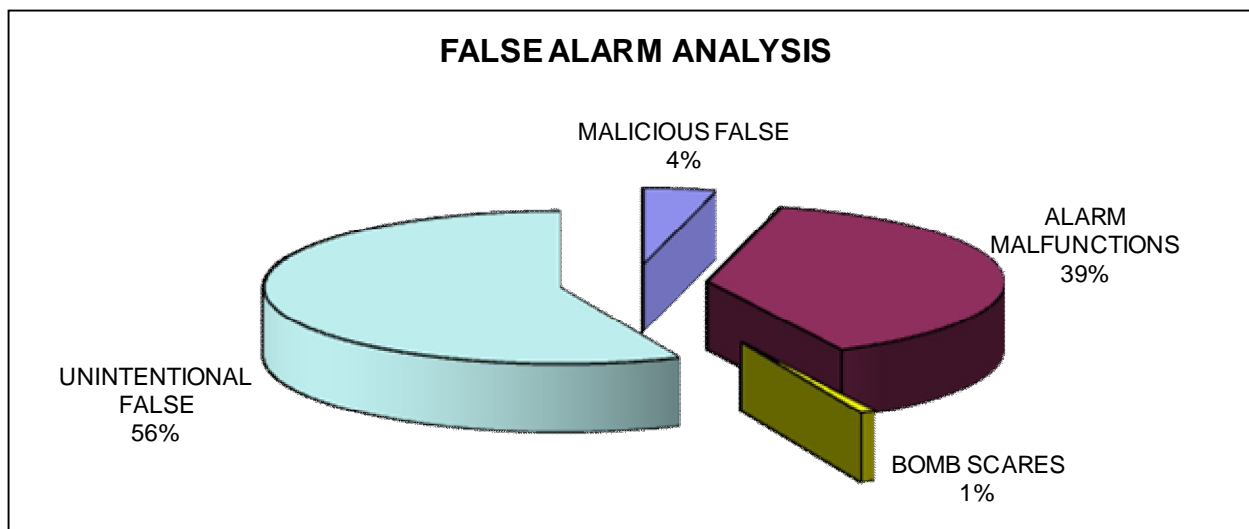


Multiple apparatus respond to most types of incidents. Typically, only one apparatus responds to a medical call. The above chart depicts the number of incidents each apparatus responded to in 2012; the chart does not include responses of Cars 20 through 35, the brush truck, hazmat truck, or standby engines. Apparatus responses totaled 18,452 on 11,971 incidents.

Incident Responses

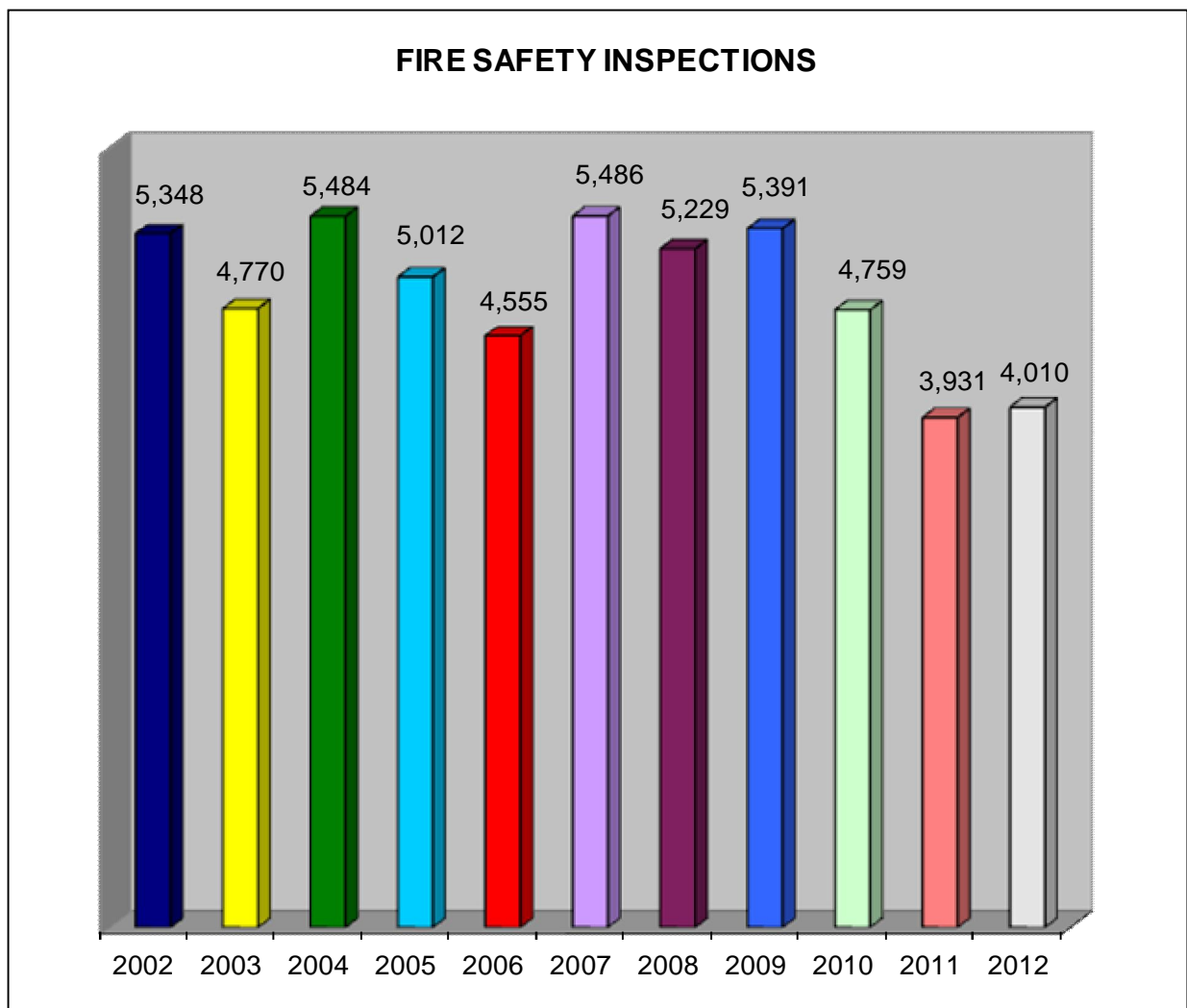
The Murfreesboro City Code regarding alarm systems was amended in 1999. The purpose of this ordinance is to encourage alarm owners to maintain their alarm systems and to eliminate any unnecessary emergency traffic. This ordinance is also designed to encourage better maintenance and proper installation of alarms. The Murfreesboro Fire & Rescue Department is making an effort to assist business owners in identifying and eliminating potential problems with their alarm systems.

MFRD received a total of 1,082 false alarms in 2012. False alarms represent nine percent (9.04%) of the total calls for service. The types of false alarms are bomb scares, malicious false, alarm malfunctions, and unintentional false.



Fire Prevention

Fire Prevention is an essential function in reducing fire losses by decreasing the incidence of uncontrolled fires. Inspections help ensure life safety conditions within a structure. During inspections, a Fire Inspector checks for potential fire hazards and advises the owner of corrections needed. These inspections provide an opportunity to educate the public. In 2012, 4,010 fire safety inspections were conducted.



Fire Prevention

The Captain/Shift Inspectors conduct routine fire inspections on existing buildings. Items inspected are exit doors, proper operation of exit doors, proper number of exits, emergency lighting, hazardous materials storage, fire suppression systems, fire hydrants, and fire alarm systems. Assistant Fire Marshals go to construction sites to observe the installation of fire detection equipment, fire suppression systems, notification systems, fire pumps, access to the facility, proper fire hydrant location, and proper fire flows.

Site plans are reviewed biweekly in conjunction with the Planning and Water Departments. The Fire Marshal reviews the plans for proper access to the facility, number of fire hydrants, size of water main, and any hazards existing to hinder fire suppression activities. Comments are noted on the site plan for revision before going to the Planning Commission for approval. Architectural drawings are reviewed weekly with the Plans Examiner of the Building Codes Department to ensure that the building plans meet all code requirements for a safe building.

MFRD monitors open burning for the City of Murfreesboro. Individuals requesting information on open burning are informed of the State and EPA guidelines prior to burning. Approximately 198 requests were made in 2012.

The MFRD Fire Prevention Division receives and distributes smoke detectors annually. Since 1990, the Fire Prevention Division has given free smoke detectors to low income families, senior citizens on a fixed income, and burn out victims. In 2000, MFRD started a city-wide smoke detector placement program called Project SAFE "Smoke Alarms for Everyone." In 2011, MFRD received federal grant funds of \$43,760 to purchase 2,500 dual-sensor smoke alarms, 100 smoke alarms/detectors with a visual signal, and 100 bedside fire alarms with a motion device. The City matched the grant funds with 20% or \$10,940 for a total of \$54,700. MFRD advertised that these smoke detectors would be issued and installed free of charge to the citizens of Murfreesboro. In 2012, personnel installed 333 dual-sensors, seven alarms with visual signals, 47 bedside fire alarms, and 181 batteries through Project SAFE.

There are several ways the Fire Prevention Division learns names of individuals who need smoke detectors. During educational events, such as health fairs, career days, and safety classes, Assistant Fire Marshals ask individuals if they know of anyone who needs a smoke detector. Home nurses and aides also turn in names to our office.



**FINAL INSPECTION
OF AMAZON FACILITY**

Fire Safety Education

Fire safety education is one of the MFRD's primary goals. Fire safety education is the key to saving lives and is taught throughout the year. Our main focus is on home fire safety because over 80 percent of fire deaths occur at home. The Fire Marshal's Office also educates area business people on fire safety. In 2012, MFRD educated approximately 37,262 children and adults on fire safety.

"Freddie the Fire Truck," acquired in April 2006, is an excellent tool for teaching fire safety. Freddie is a fully animated robot which moves, speaks, winks, blinks, and sounds a siren all by remote control. Freddie maneuvers easily in school classrooms and is just the right size for teaching children. The combination sprinkler/fire safety house, acquired in March 2007 through a federal grant, is another valuable educational tool used to teach children and adults about fire safety and burn prevention. The combination sprinkler/fire safety house is a single story house with a kitchen, sitting area, bedroom and a burn area to show sprinkler operation and effectiveness. Personnel can demonstrate to home and business owners that residential and business sprinkler systems help prevent fires from spreading out of control.

Fire Prevention Week was October 7 through 13, 2012. The national theme was "Have 2 Ways Out!" During September and October, MFRD personnel taught fire safety at each city school, each county school within the city limits, preschools, and daycares using "Freddie the Fire Truck" and the Fire Safety House. School children learned about smoke detectors, escaping from windows, and safe places to meet. Students were given red plastic fire helmets.

Station tours are scheduled all during the year. During these tours, children learn about fire safety and prevention. Children get to look closely at fire engines, hear the sirens, watch a safety video, and much more. Children receive red plastic fire helmets, as well as, fire safety pamphlets to carry home. MFRD also participated in several public relations events that provided opportunities to educate individuals on fire safety. Information packets on fire safety were distributed, and personnel were available to answer questions on fire safety.



**LEADERSHIP RUTHERFORD
LEARNED HOW TO
PROPERLY USE A FIRE
EXTINGUISHER**

Citizens Fire Academy

MFRD held its first Citizens Fire Academy (CFA) in 2001 for citizens of the community. Eleven (11) students graduated from the tenth session of the CFA in 2012. Since inception, 116 students have graduated from the CFA.

The Citizens Fire Academy (CFA) offers a small group of area residents the opportunity to view and participate in the activities and services provided by the MFRD. All activities offered during the Academy are optional; students only participate in activities to which they feel comfortable. Academy participants receive an insider's view of the department's operations. The CFA helps participants better understand the department's functions, operations, and procedures. The CFA is designed to provide knowledge in fire prevention, extinguisher training, cardiopulmonary resuscitation, and a better understanding of the firefighter's role in the community. Participants complete this program more conscious of their environment and safety oriented. Participants have the opportunity to interact with department personnel and ask questions about all aspects of the department's role in our community. Participants leave the Academy with a higher respect for the fire service.

A significant portion of the Academy consists of classroom instruction and discussions along with special activities including a ride-along in a fire engine, wearing and using a self-contained breathing apparatus, wearing turnout firefighting clothing, firefighting demonstrations and participation, climbing and riding an aerial apparatus, and other important aspects of the department. All class instructors are members of the MFRD and are committed to providing appropriate information to all participants in the Academy.



**INSTRUCTORS
EDUCATED CFA
STUDENTS ABOUT
VARIOUS ASPECTS OF
A FIREFIGHTER'S JOB**

Competitions

HONOR GUARD COMPETITION

MFRD Honor Guard attended the Fire Department Instructors Conference (FDIC) on April 19-20, 2012 in Indianapolis to compete in the National Honor Guard Competition. MFRD competed against eight departments from across the nation and placed first in overall competition. This was the second competition for the MFRD Honor Guard. Honor Guard teams competed in a variety of Honor Guard functions. The competition promotes precision and execution. Teams were tested on inspection of detail, flag presentation (parade), posting of colors, and mock burial detail. A flag folding and presentation was also included.



TUFF CHALLENGE

MFRD competed in the 9th Annual Tennessee Ultimate Fire Fighting (TUFF) Challenge on Saturday, September 29, 2012. The TUFF challenge is a fund raising event for the Tennessee Fallen Firefighter Memorial and is open to Tennessee firefighters and departments. MFRD entered two teams in the professional category and three personnel in the individual category. The Pro teams placed second and third and one individual placed second. Competitors performed a series of tasks that represent the physical demands of a firefighter's job. Evolutions completed in each competition are the high-rise stair climb, hose hoist, forcible entry, hose advance, and victim rescue.



Firefighter Training

In 2012, 183 personnel trained 70,855 hours according to individual training records for a monthly average of approximately thirty-two (32.27) hours per firefighter. Firefighters train a minimum of 20 hours per month to help maintain the City of Murfreesboro Insurance Services Office (ISO) Class Two Fire Rating. Firefighters receive training from MFRD Instructors, the Tennessee Fire Service and Codes Enforcement Academy (TFACA), the Tennessee Emergency Management Agency (TEMA), the National Fire Academy (NFA), the Tennessee Association of Rescue Squads (TARS), and numerous schools, agencies, on-line courses, and workshops. In 2012, personnel attended 92 specialized courses for a total of 6,755 hours.

MFRD uses the United States Department of Transportation and the United States Department of Health and Human Services First Responder: National Standard Curriculum for teaching Medical First Responder. The Medical First Responder course consists of 70 hours of cognitive and practical training. At the end of the training course, students must pass a National Registry First Responder test. Students passing the exam receive a state issued certificate allowing them to perform the duties of a Medical First Responder. A Medical First Responder certificate is valid for two years. MFRD firefighters receive 16 hours of emergency medical refresher training every two (2) years in addition to six (6) hours of randomly selected subjects annually. In 2012, MFRD had 98 personnel certified in Medical First Responder, 76 Emergency Medical Technicians (EMTs), and six (6) Paramedics. Three (3) MFRD Firefighters/Paramedics and the Fire and Medical Training Coordinator/EMT are certified Medical First Responder Instructors and teach the MFRD Medical First Responder classes.

MFRD follows the Tennessee Association of Rescue Squads (TARS) Vehicle Extrication teaching curriculum for vehicle extrication training. The vehicle extrication training course consists of three days of training including one day in the classroom and two days at an auto salvage yard. At the salvage yard, the students practice stabilizing vehicles, removing doors, windows, and tops, and pushing dashboards off of victims. A written test is administered to evaluate the students. Personnel also attend the three day TARS Advanced Extrication course. TARS requires vehicle extrication refresher training every two years. In 2012, all MFRD firefighters had a TARS training certificate in vehicle extrication.

In 2012, the Tennessee Federation of Fire Chaplains delivered a four hour Stress Management Crisis Intervention Familiarization for Emergency Responders class to 183 MFRD personnel.

Firefighter Training

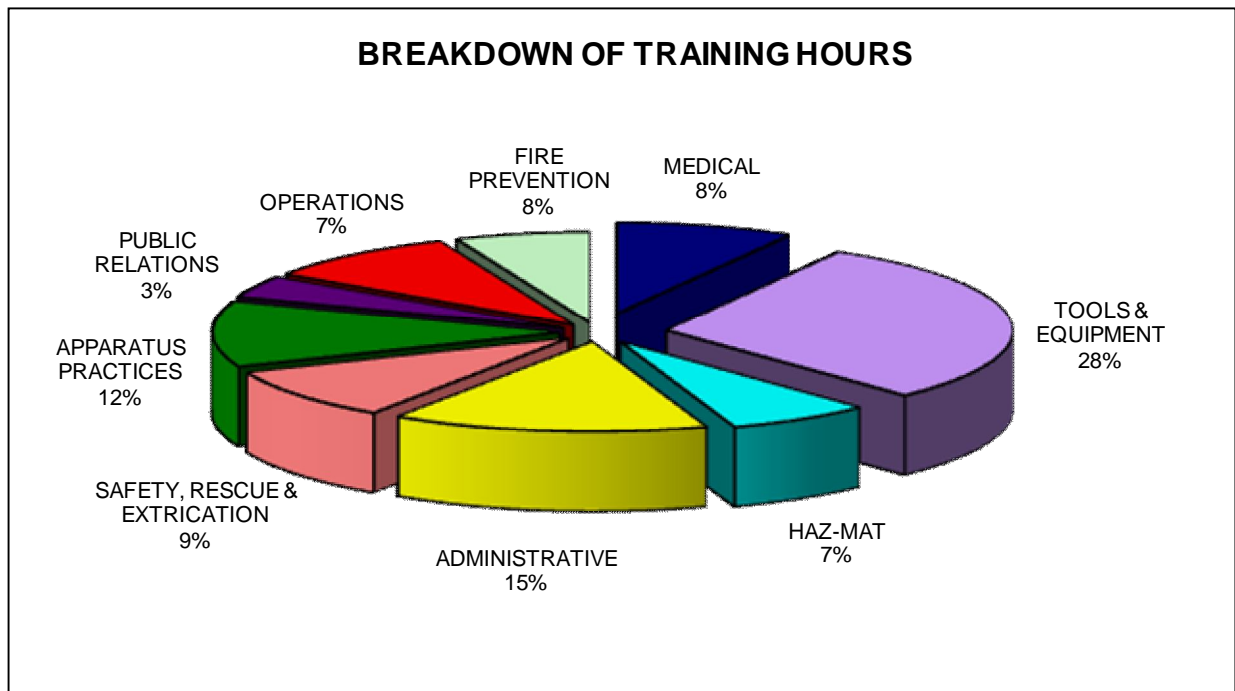
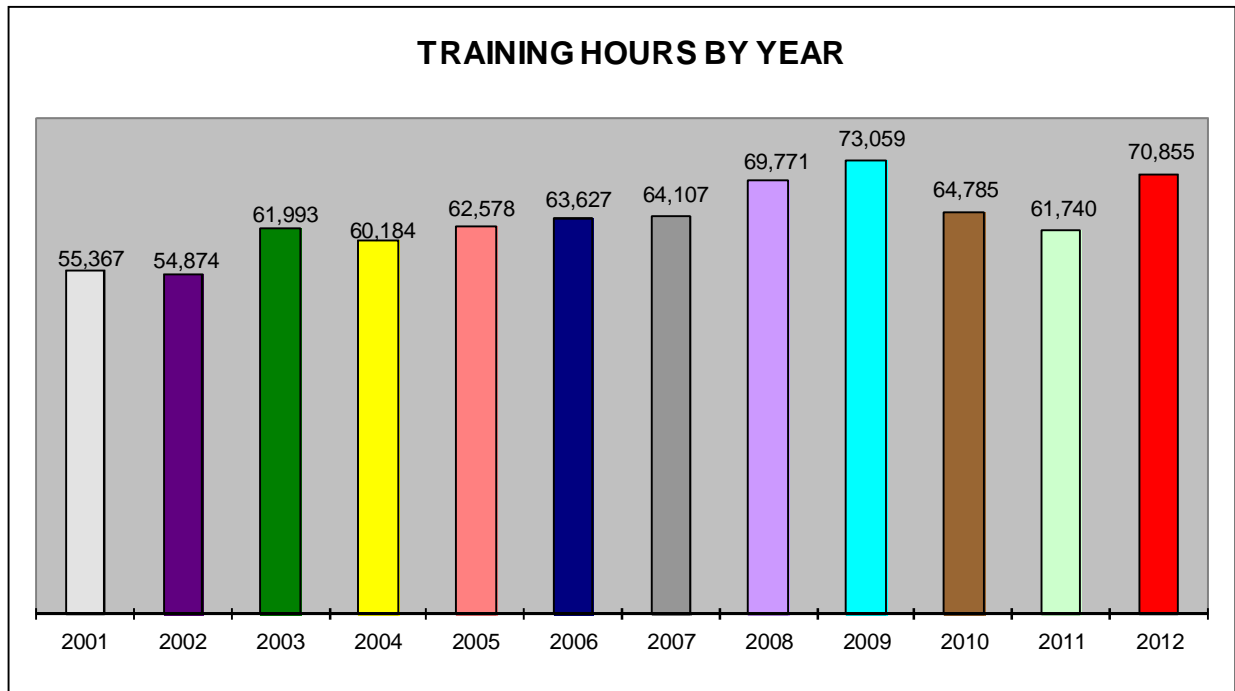
MFRD received approximately \$86,000.00 of federally funded training in 2012. Nine (9) personnel attended classes at the Security and Emergency Response Training Center in Pueblo, Colorado and the Center for Radiological/Nuclear Training at the Nevada National Security Site near Las Vegas, Nevada. Eight (8) of the nine (9) personnel attended a 32 hour Weapons of Mass Destruction (WMD) Radiological/Nuclear Hazardous Materials Technicians course at the Counter Terrorism Operations Support Center for RAD/NUC Training. The course taught hazmat technicians how to respond to an incident involving a radiological or nuclear WMD. One (1) employee attended an 80 hour HAZMAT/WMD Technicians for Surface Transportation course. The course taught hazmat technicians procedures for containment and confinement involving railcars, cargo tanks, and portable tanks.

Eleven (11) personnel attended a 32 hour Incident Response to Terrorist Bombings course and eight (8) personnel to a 36 hour Prevention of and Response to Suicide Bombing Incidents. The classes were taught at the Energetic Material Research and Testing Center at New Mexico Tech. The courses prepare emergency responders to react effectively, work cooperatively, and apply countermeasures in any incident involving explosives.



PERSONNEL TRAINED ON THE MANY FUNCTIONS OF THEIR JOB

Firefighter Training



Firefighter Training

OSHA regulations mandate facepiece fit tests be administered to each firefighter annually. The fit tests ensure that the facepiece fits and works properly. MFRD uses the Qualitative Irritant Smoke Protocol to fit test each firefighter's SCBA facepiece. OSHA also requires an annual respiratory evaluation on each firefighter. In 2012, a licensed doctor administered an annual breathing test to each firefighter.

MFRD's Training Office oversees the maintenance of 126 self-contained breathing apparatus (SCBA) and 241 cylinders for the department. Regulations require that composite cylinders be hydrostatically pressure tested every five years. All MFRD SCBA regulators are tested annually by an outside source to ensure performance. MFRD maintains four (4) breathing air compressor units and 32 6,000 pounds per square inch (psi) cascade cylinders that supply all SCBA breathing air for the department. The breathing air quality was tested quarterly in the air compressor units by an outside source in 2012. These tests ensure non-toxic air is being inhaled by our firefighters while using their SCBA.

MFRD's Training Office keeps records of hazardous chemicals existing at facilities in Murfreesboro. The federal government requires businesses to annually submit a Tier II form to the Fire Department detailing any extremely hazardous materials stored at their facility. The Tier II form contains lifesaving information and is available for all personnel to study. Tier II information is incorporated into our dispatch system.

MFRD's Training Office oversees the annual inventory check of all MFRD fire stations, apparatus, equipment, and fixed assets. In 2012, the MFRD had 10 fire stations, one administration office building, 24 fire apparatus, and 35 other vehicles. Each fire station and fire apparatus contains an array of relative equipment and when combined, sums up to thousands of fixed assets.



**PERSONNEL PERFORMED
MAINTENANCE ON
EXTRICATION EQUIPMENT**



**PERSONNEL FLOWED
ALL HYDRANTS IN THE
CITY LIMITS**

Firefighter Training

MFRD's Training Office maintains records of fire apparatus fire pump annual service tests. In 2012, the service test was performed on 16 MFRD fire apparatus. Most MFRD fire apparatus can deliver 1500 gallons of water per minute (gpm). Each pump system is tested according to the National Fire Protection Association (NFPA) Standard #1911 which requires a 20 minute capacity (1500 gpm) test at 150 psi pump pressure, a 10 minute 70 percent capacity test at 200 psi, and a 10 minute 50 percent capacity at 250 psi. MFRD performs the fire apparatus fire pump systems tests at the Smyrna Fire Department or Kittrell Volunteer Fire Department water-drafting pits. Nine (9) aerial/ladder apparatus are certified annually to ensure safe operation.

MFRD's Training Office oversees the annual fire hose tests. MFRD fire hose inventory consists of 1", 1.5", 1.75", 2.5", 3", and 4" fire hose that are 50-100 feet in length. The hoses are pressurized from 200 to 250 psi, depending on the hose material, for five (5) minutes. In 2012, MFRD personnel tested approximately 48,900' of fire hose.

MFRD has participated in the State of Tennessee's Commission on Firefighting certification program since 1986. Currently, MFRD participates in 12 levels of certification. All tests consist of practical and written portions. In 2012, MFRD administered the practical part of the Fire Apparatus Operator, Instructor I, and Fire Safety Compliance Officer I and II tests. The Firefighting Commission administered the practical for their Firefighter I, Journeyman Firefighter/Firefighter II, Officer I and II, Instructor II, Safety Officer, and Public Fire and Life Safety Educator I and II tests. The Firefighting Commission administers all written certification tests. In 2012, the MFRD had 99 percent (99.45%) Firefighter I state certified personnel.

MFRD also participates in the Commission's State Educational Incentive Program. The program requires firefighters to complete a minimum of 40 hours of approved training per year. All State Educational Incentive Training is administered within MFRD and is subject to state audit. MFRD was audited in July 2012. Training records were scrutinized for discrepancies according to the approved program. MFRD passed the audit. In 2012, firefighting personnel received \$105,600 for their 2011 State Educational Incentive Training.



**PERSONNEL
PERFORMED ANNUAL
PUMP & HOSE TESTS**

Firefighter Training

